IN THE CLAIMS

1. (Original) An N-[(piperazinyl)hetaryl]arylsulfonamide compound of the general formula I

$$R^{1}-N \longrightarrow N-Q-R-SO_{2}-Ar$$

$$(R^{2})_{0}$$

$$(I)$$

in which

- R is oxygen, a group N-R³ or a group CR^{3a}R^{3b};
- is a bivalent, 6-membered heteroaromatic radical which possesses 1 or 2 N atoms as ring members and which optionally carries one or two substituents R^a which is/are selected, independently of each other, from halogen, CN, NO₂, CO₂R⁴, COR⁵, C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-haloalkyl, NH₂, NHR⁶, NR⁶R⁷ and C₁-C₄-haloalkoxy;
- ar is phenyl or a 6-membered heteroaromatic radical which possesses 1 or 2 N atoms as ring members and which optionally carries one or two substituents R^b, which is/are selected from halogen, NO₂, CN, CO₂R⁴, COR⁵, NH₂, NHR⁶, NR⁶R⁷, C₁-C₆-alkyl, C₁-C₆-haloalkyl, C₁-C₆-alkoxy, C₁-C₆-haloalkoxy, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyl-C₁-C₄-alkyl and C₁-C₄-haloalkyl, with it also being possible for two radicals R^b which are bonded to adjacent C atoms of Ar to be together C₃-C₄-alkylene;
- n is 0, 1 or 2;
- R¹ is hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyl-C₁-C₄-alkyl, C₁-C₄-hydroxyalkyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, C₃-C₄-alkenyl or C₃-C₄-alkynyl;
- R^2 is C_1 - C_4 -alkyl or, together with R^1 , is C_2 - C_5 -alkylene or, in the case of n = 2, the two radicals R^2 can together be C_1 - C_4 -alkylene;

- R^3 is hydrogen or C_1 - C_4 -alkyl;
- R^{3a}, R^{3b}are, independently of each other, hydrogen or C₁-C₄-alkyl;
- R⁴ is C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₂-C₄-alkenyl C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyl-C₁-C₄-alkyl, phenyl or benzyl; and
- R⁵ is hydrogen, C₁-C₄-alkyl, C₁-C₄-haloalkyl, C₂-C₄-alkenyl C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyl-C₁-C₄-alkyl, phenyl or benzyl;
- R⁶, R⁷ are each independently selected from C₁-C₄-alkyl, C₁-C₄-haloalkyl or together with the nitrogen to which they are bound form a saturated 3-, 4-, 5- or 6-membered heterocycle, which additionally may comprise an oxygen atom or an additional nitrogen atom as a ring member and which may carry 1, 2, 3 or 4 C₁-C₄ alkyl groups;

the N-oxides thereof and the physiologically tolerated acid addition salts of these compounds;

with the exception of the compounds: 4-methyl-N-[6-(4-methylpiperazin-1-yl)pyridin-3-yl)benzenesulfonamide and 4-chloro-N-[6-(4-methylpiperazin-1-yl)pyridin-3-yl)benzenesulfonamide.

- 2. (Original) The compound as claimed in claim 1, wherein R is N-R³ with R^3 , being H or C_1 - C_4 -alkyl.
- 3. (Original) The compound as claimed in claim 2, wherein
 - Q is a bivalent, 6-membered heteroaromatic radical which possesses 1 or 2 N atoms as ring members and which optionally carries one or two substituents R^a which is/are selected, independently of each other, from halogen, CN, NO₂, CO₂R⁴, COR⁵, C₁-C₄-alkyl and C₁-C₄-haloalkyl and
 - Ar is phenyl or a 6-membered heteroaromatic radical which possesses 1 or 2 N atoms as ring members and which optionally carries one or two substituents R^b, which is/are selected from halogen, NO₂, CN, CO₂R⁴, COR⁵, C₁-C₆-alkyl, C₂-C₆-alkenyl, C₂-C₆-alkynyl, C₃-C₆-cycloalkyl, C₃-C₆-cycloalkyl-C₁-C₄-alkyl and C₁-C₄-haloalkyl, with it also being possible for two radicals R^b which are bonded to adjacent C atoms of Ar to be together C₃-C₄-alkylene.

- 4. (Original) The compound as claimed in claim 1, in which the piperazine ring is bonded to the heteroaromatic radical Q in the para position in relation to the group R-SO₂-Ar.
- 5. (Currently Amended) The compound as claimed in one of the preceding claims claim 1, in which Q is a radical of the formula

in which A_1 , A_2 and A_3 are, independently of each other, N or CH, one or two of the variables A_1 , A_2 and A_3 can also be C-R^a, k = 0 or 1 and R^a is selected from halogen, C_1 - C_4 -alkyl, C_1 - C_4 -haloalkyl, C_1 - C_4 -alkoxy, NH₂, NHR⁶, NR⁶R⁷ and C_1 - C_4 -haloalkoxy, with A_1 , A_2 and A_3 not simultaneously being N or simultaneously being selected from CH and C-R^a.

- 6. (Original) The compound as claimed in claim 5, in which A_3 is nitrogen, A_2 is CH and A_1 is N or CH and wherein the piperazine radical is located in the 2 position.
- 7. (Original) The compound as claimed in claim 6, in which Q is pyridin-2,5-diyl which carries the piperazine radical in the 2 position.
- 8. (Original) The compound as claimed in claim 6, in which Q is a radical of the formula

$$- \bigwedge_{N}^{A_1} A_2$$

$$- \bigwedge_{N}^{a}$$

in which A_1 and A_2 are, independently of each other, N or CH and R^a is selected from , C_1 - C_4 -alkoxy, NH₂, NHR⁶, NR⁶R⁷ and C_1 - C_4 -haloalkoxy.

- 9. (Original) The compound as claimed in claim 8, in which A_1 is N or CH and A_2 is CH and wherein the piperazine radical is located in the 2 position.
- 10. (Currently Amended) The compound as claimed in ene of the preceding elaims claim 1, in which the radical Ar carries a substituent R^b in the para position and, where appropriate, a further substituent R^b in the meta position or

in the ortho position, in each case based on the binding site of the sulfonamide group.

- 11. (Currently Amended) The compound as claimed in one of the preceding claims claim 1, in which Ar is phenyl or pyridyl, which radicals possess, where appropriate, one or 2 R^b substituents.
- 12. (Currently Amended) The compound as claimed in one of the preceding claims claim 1, in which R¹ is different from hydrogen and methyl.
- 13. (Original) The compound as claimed in claim 1 of the general formula la

$$R^{1}-N \xrightarrow{A_{1}^{-}A_{2}} N-SO_{2} \xrightarrow{X=Y} R^{b}$$
 (Ia)

in which n, R¹, R², R³, R^a and R^b have the meanings given in claim 1 and in which either

 A_1 , A_2 and A_3 are, independently of each other, N or CH and one or two of the variables A_1 , A_2 and A_3 can also be C-R^a, with A_1 , A_2 and A_3 not simultaneously being N or simultaneously being selected from CH and C-R^a,

X and Y are selected from CH, C-R^{b'} and N, in which R^{b'} is halogen, methyl, CN, difluoromethyl or trifluoromethyl, with X and Y not simultaneously being N or simultaneously being C-R^{b'}, and

k is 0 or 1.

- 14. (Original) The compound of the formula Ia as claimed in claim 13, in which k = 0, with A_1 , A_2 and A_3 being, independently of each other, N or CH and A_1 , A_2 and A_3 not simultaneously being N or simultaneously being CH.
- 15. (Original) The compound of the formula Ia as claimed in claim 14, in which A_1 is CH or N, A_2 is CH and A_3 is N.
- 16. (Original) The compound of the formula Ia as claimed in claim 13, in which k is 1, A₁ is CH or N, A₂ is CH and A₃ is N, and R^a is selected from , C₁-C₄-alkoxy, NH₂, NHR⁶, NR⁶R⁷ and C₁-C₄-haloalkoxy and R^a is bound to the carbon atom adjacent to A₃.

- 17. (Currently Amended) The compound of the formula Ia as claimed in any of claims claim 13 to 15, in which n is 0 or 1 and, in the case of n = 1, R² is bonded to the C atom of the piperazine ring which is adjacent to the group R¹-N and is a methyl group having the S configuration.
- 18. (Currently Amended) The compound of the formula la as claimed in ene of claims claim 13 to 16, in which the radical Ar carries a substituent R^b in the para position and, where appropriate, a further substituent R^b in the meta position or in the ortho position, in each case based on the binding site of the sulfonamide group.
- (Currently Amended) The compound of the formula la as claimed in ene of claims claim 13 to 17, in which Ar is phenyl or pyridyl, which radicals possess, where appropriate, one or 2 R^b substituents.
- 20. (Currently Amended) The compound of the formula la as claimed in one of claims claim 13 to 18, in which R¹ is different from hydrogen and methyl.
- 21. (Currently Amended) The compound of the formula la as claimed in one of claims claim 13 to 20, of the general formula la.1

$$R^{1}-N \longrightarrow N \longrightarrow N-SO_{2} \longrightarrow R^{b}$$
 (Ia.1)

in which n, X, Y, R^1 , R^2 , R^3 , R^a and R^b have the meanings given in claim 13 and q is 0, 1 or 2.

22. (Currently Amended) The compound of the formula la as claimed in one of claims claim 13 to 19, of the general formula la.2

$$R^{1}-N \longrightarrow N \longrightarrow N -SO_{2} \longrightarrow R^{b}$$

$$(Ia.2)$$

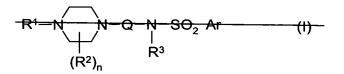
$$(R^{2})_{n} \qquad (R^{a})_{q}$$

in which n, X, Y, R^1 , R^2 , R^3 , R^a and R^b have the meanings given in claim 13 and q is 0 or 1.

23. (Currently Amended) A pharmaceutical composition which comprises at least one N-[(piperazinyl)hetaryl]arylsulfonamide compound as claimed in one of

claims claim 1 to 22 and/or at least one physiologically tolerated acid addition salt of I and/or an N-oxide of I, where appropriate together with physiologically acceptable carriers and/or auxiliary substances.

- 24. (Cancel)
- 25. (Cancel)
- 26. (Currently Amended) The use method as claimed in claim 24 27 for treating kidney function disturbances.
- 27. (Currently Amended) A method for treating a medical disorder susceptible to treatment with a dopamine D₃ receptor antagonist or a dopamine D₃ agonist, said method comprising administering an effective amount of at least one compound of the formula I



in which Q, Ar, n, R¹, R²-and R³ have the previously mentioned meanings, or the N-oxides thereof or the physiologically tolerated acid addition salts thereof of claim 1 to a subject in need thereof.

28. (Original) The method as claimed in Claim 27, wherein the medical disorder is a disease of the central nervous system.